

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/462,416A  
Source: 1Fw16  
Date Processed by STIC: 8/11/06

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 08/11/2006

PATENT APPLICATION: US/09/462,416A

TIME: 10:40:41

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\08112006\I462416A.raw

3 <110> APPLICANT: REVEL, Michel  
 4 CHEBATH, Judith  
 5 LAPIDOT, Tsvee  
 6 KOLLET, Orit  
 8 <120> TITLE OF INVENTION: CHIMERIC INTERLEUKIN-6 SOLUBLE RECEPTOR/LIGAND PROTEIN,  
 ANALOGS  
 9 THEREOF AND USES THEREOF  
 11 <130> FILE REFERENCE: REVEL=15  
 13 <140> CURRENT APPLICATION NUMBER: 09/462,416A  
 14 <141> CURRENT FILING DATE: 2000-04-13  
 16 <150> PRIOR APPLICATION NUMBER: PCT/IL98/00321  
 17 <151> PRIOR FILING DATE: 1998-07-09  
 19 <150> PRIOR APPLICATION NUMBER: IL 121284  
 20 <151> PRIOR FILING DATE: 1997-07-10  
 22 <150> PRIOR APPLICATION NUMBER: IL 122818  
 23 <151> PRIOR FILING DATE: 1997-12-30  
 25 <160> NUMBER OF SEQ ID NOS: 13  
 27 <170> SOFTWARE: PatentIn version 3.3  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 13  
 31 <212> TYPE: PRT  
 32 <213> ORGANISM: Artificial Sequence  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: synthetic  
 37 <400> SEQUENCE: 1  
 39 Glu Phe Gly Ala Gly Leu Val Leu Gly Gly Gln Phe Met  
 40 1 5 10  
 43 <210> SEQ ID NO: 2  
 44 <211> LENGTH: 22  
 45 <212> TYPE: DNA  
 46 <213> ORGANISM: Artificial Sequence  
 48 <220> FEATURE:  
 49 <223> OTHER INFORMATION: synthetic  
 51 <400> SEQUENCE: 2  
 52 ctagtgggcc cggggtggcg gg 22  
 55 <210> SEQ ID NO: 3  
 56 <211> LENGTH: 25  
 57 <212> TYPE: DNA  
 58 <213> ORGANISM: Artificial Sequence  
 60 <220> FEATURE:  
 61 <223> OTHER INFORMATION: synthetic  
 63 <400> SEQUENCE: 3  
 64 gactagtagc tatgaactcc ttctc 25  
 67 <210> SEQ ID NO: 4

## RAW SEQUENCE LISTING

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68 <211> LENGTH: 21
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: synthetic
75 <400> SEQUENCE: 4
76 agggccattt gccgaagagc c 21
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 31
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: synthetic
87 <400> SEQUENCE: 5
88 gatccgggcg gcgggggagg ggggcccggg c 31
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 14
93 <212> TYPE: PRT
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: synthetic
99 <400> SEQUENCE: 6
101 Gly Gly Gly Gly Asp Pro Gly Gly Gly Gly Gly Gly Pro Gly
102 1 5 10
105 <210> SEQ ID NO: 7
106 <211> LENGTH: 543
107 <212> TYPE: PRT
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: synthetic
113 <400> SEQUENCE: 7
115 Met Leu Ala Val Gly Cys Ala Leu Leu Ala Ala Leu Leu Ala Ala Pro
116 1 5 10 15
119 Gly Ala Ala Leu Ala Pro Arg Arg Cys Pro Ala Gln Glu Val Ala Arg
120 20 25 30
123 Gly Val Leu Thr Ser Leu Pro Gly Asp Ser Val Thr Leu Thr Cys Pro
124 35 40 45
127 Gly Val Glu Pro Glu Asp Asn Ala Thr Val His Trp Val Leu Arg Lys
128 50 55 60
131 Pro Ala Ala Gly Ser His Pro Ser Arg Trp Ala Gly Met Gly Arg Arg
132 65 70 75 80
135 Leu Leu Leu Arg Ser Val Gln Leu His Asp Ser Gly Asn Tyr Ser Cys
136 85 90 95
139 Tyr Arg Ala Gly Arg Pro Ala Gly Thr Val His Leu Leu Val Asp Val
140 100 105 110
143 Pro Pro Glu Glu Pro Gln Leu Ser Cys Phe Arg Lys Ser Pro Leu Ser
144 115 120 125
147 Asn Val Val Cys Glu Trp Gly Pro Arg Ser Thr Pro Ser Leu Thr Thr
148 130 135 140

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151 Lys Ala Val Leu Leu Val Arg Lys Phe Gln Asn Ser Pro Ala Glu Asp
152 145          150          155          160
155 Phe Gln Glu Pro Cys Gln Tyr Ser Gln Glu Ser Gln Lys Phe Ser Cys
156          165          170          175
159 Gln Leu Ala Val Pro Glu Gly Asp Ser Ser Phe Tyr Ile Val Ser Met
160          180          185          190
163 Cys Val Ala Ser Ser Val Gly Ser Lys Phe Ser Lys Thr Gln Thr Phe
164          195          200          205
167 Gln Gly Cys Gly Ile Leu Gln Pro Asp Pro Pro Ala Asn Ile Thr Val
168          210          215          220
171 Thr Ala Val Ala Arg Asn Pro Arg Trp Leu Ser Val Thr Trp Gln Asp
172 225          230          235          240
175 Pro His Ser Trp Asn Ser Ser Phe Tyr Arg Leu Arg Phe Glu Leu Arg
176          245          250          255
179 Tyr Arg Ala Glu Arg Ser Lys Thr Phe Thr Thr Trp Met Val Lys Asp
180          260          265          270
183 Leu Gln His His Cys Val Ile His Asp Ala Trp Ser Gly Leu Arg His
184          275          280          285
187 Val Val Gln Leu Arg Ala Gln Glu Glu Phe Gly Gln Gly Glu Trp Ser
188          290          295          300
191 Glu Trp Ser Pro Glu Ala Met Gly Thr Pro Trp Thr Glu Ser Arg Ser
192 305          310          315          320
195 Pro Pro Ala Glu Asn Glu Val Ser Thr Pro Met Gln Ala Leu Thr Thr
196          325          330          335
199 Asn Lys Asp Asp Asp Asn Ile Leu Phe Arg Asp Ser Ala Asn Ala Thr
200          340          345          350
203 Ser Leu Pro Val Glu Phe Met Pro Val Pro Pro Gly Glu Asp Ser Lys
204          355          360          365
207 Asp Val Ala Ala Pro His Arg Gln Pro Leu Thr Ser Ser Glu Arg Ile
208          370          375          380
211 Asp Lys Gln Ile Arg Tyr Ile Leu Asp Gly Ile Ser Ala Leu Arg Lys
212 385          390          395          400
215 Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser Ser Lys Glu Ala Leu
216          405          410          415
219 Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala Glu Lys Asp Gly Cys
220          420          425          430
223 Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu Val Lys Ile Ile Thr
224          435          440          445
227 Gly Leu Leu Glu Phe Glu Val Tyr Leu Glu Tyr Leu Gln Asn Arg Phe
228          450          455          460
231 Glu Ser Ser Glu Glu Gln Ala Arg Ala Val Gln Met Ser Thr Lys Val
232 465          470          475          480
235 Leu Ile Gln Phe Leu Gln Lys Lys Ala Lys Asn Leu Asp Ala Ile Thr
236          485          490          495
239 Thr Pro Asp Pro Thr Thr Asn Ala Ser Leu Leu Thr Lys Leu Gln Ala
240          500          505          510
243 Gln Asn Gln Trp Leu Gln Asp Met Thr Thr His Leu Ile Leu Arg Ser
244          515          520          525
247 Phe Lys Glu Phe Leu Gln Ser Ser Leu Arg Ala Leu Arg Gln Met

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Input Set : A:\sequence listing.txt

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248      530      535      540
251 <210> SEQ ID NO: 8
252 <211> LENGTH: 471
253 <212> TYPE: PRT
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: synthetic
259 <400> SEQUENCE: 8
261 Met Asn Ser Phe Ser Thr Ser Ala Phe Gly Pro Val Ala Phe Ser Leu
262 1      5      10      15
265 Gly Leu Leu Leu Val Leu Pro Ala Ala Phe Pro Ala Pro Val Pro Pro
266      20      25      30
269 Gly Glu Asp Ser Lys Asp Val Ala Ala Pro His Arg Gln Pro Leu Thr
270      35      40      45
273 Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile Leu Asp Gly Ile
274      50      55      60
277 Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser
278 65      70      75      80
281 Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala
282      85      90      95
285 Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu
286      100     105     110
289 Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val Tyr Leu Glu Tyr
290      115     120     125
293 Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala Arg Ala Val Gln
294      130     135     140
297 Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys Lys Ala Lys Asn
298 145     150     155     160
301 Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn Ala Ser Leu Leu
302      165     170     175
305 Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Gln Asp Met Thr Thr His
306      180     185     190
309 Leu Ile Leu Arg Ser Phe Lys Glu Phe Leu Gln Ser Ser Leu Arg Ala
310      195     200     205
313 Leu Arg Gln Met Gly Gly Gly Gly Asp Pro Gly Gly Gly Gly Gly Gly
314      210     215     220
317 Pro Gly Val Pro Pro Glu Glu Pro Gln Leu Ser Cys Phe Arg Lys Ser
318 225     230     235     240
321 Pro Leu Ser Asn Val Val Cys Glu Trp Gly Pro Arg Ser Thr Pro Ser
322      245     250     255
325 Leu Thr Thr Lys Ala Val Leu Leu Val Arg Lys Phe Gln Asn Ser Pro
326      260     265     270
329 Ala Glu Asp Phe Gln Glu Pro Cys Gln Tyr Ser Gln Glu Ser Gln Lys
330      275     280     285
333 Phe Ser Cys Gln Leu Ala Val Pro Glu Gly Asp Ser Ser Phe Tyr Ile
334      290     295     300
337 Val Ser Met Cys Val Ala Ser Ser Val Gly Ser Lys Phe Ser Lys Thr
338 305     310     315     320
341 Gln Thr Phe Gln Gly Cys Gly Ile Leu Gln Pro Asp Pro Pro Ala Asn

```

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```

342           325           330           335
345 Ile Thr Val Thr Ala Val Ala Arg Asn Pro Arg Trp Leu Ser Val Thr
346           340           345           350
349 Trp Gln Asp Pro His Ser Trp Asn Ser Ser Phe Tyr Arg Leu Arg Phe
350           355           360           365
353 Glu Leu Arg Tyr Arg Ala Glu Arg Ser Lys Thr Phe Thr Thr Trp Met
354           370           375           380
357 Val Lys Asp Leu Gln His His Cys Val Ile His Asp Ala Trp Ser Gly
358 385           390           395           400
361 Leu Arg His Val Val Gln Leu Arg Ala Gln Glu Glu Phe Gly Gln Gly
362           405           410           415
365 Glu Trp Ser Glu Trp Ser Pro Glu Ala Met Gly Thr Pro Trp Thr Glu
366           420           425           430
369 Ser Arg Ser Pro Pro Ala Glu Asn Glu Val Ser Thr Pro Met Gln Ala
370           435           440           445
373 Leu Thr Thr Asn Lys Asp Asp Asp Asn Ile Leu Phe Arg Asp Ser Ala
374           450           455           460
377 Asn Ala Thr Ser Leu Pro Val
378 465           470

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381 &lt;210&gt; SEQ ID NO: 9

382 &lt;211&gt; LENGTH: 24

383 &lt;212&gt; TYPE: DNA

384 &lt;213&gt; ORGANISM: Artificial Sequence

386 &lt;220&gt; FEATURE:

387 &lt;223&gt; OTHER INFORMATION: synthetic

389 &lt;400&gt; SEQUENCE: 9

390 gcgacaagcc tcccagtga attc

24

393 &lt;210&gt; SEQ ID NO: 10

394 &lt;211&gt; LENGTH: 18

395 &lt;212&gt; TYPE: DNA

396 &lt;213&gt; ORGANISM: Artificial Sequence

398 &lt;220&gt; FEATURE:

399 &lt;223&gt; OTHER INFORMATION: synthetic

401 &lt;400&gt; SEQUENCE: 10

402 cagtaccgga attcatgc

18

405 &lt;210&gt; SEQ ID NO: 11

406 &lt;211&gt; LENGTH: 31

407 &lt;212&gt; TYPE: DNA

408 &lt;213&gt; ORGANISM: Artificial Sequence

410 &lt;220&gt; FEATURE:

411 &lt;223&gt; OTHER INFORMATION: synthetic

413 &lt;400&gt; SEQUENCE: 11

414 catggcccgg gccctcctcc cccgcccgc g

31

417 &lt;210&gt; SEQ ID NO: 12

418 &lt;211&gt; LENGTH: 22

419 &lt;212&gt; TYPE: DNA

420 &lt;213&gt; ORGANISM: Artificial Sequence

422 &lt;220&gt; FEATURE:

423 &lt;223&gt; OTHER INFORMATION: synthetic

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/11/2006  
PATENT APPLICATION:    US/09/462,416A      TIME: 10:40:42

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF4\08112006\I462416A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:13

**VERIFICATION SUMMARY**

DATE: 08/11/2006

PATENT APPLICATION: US/09/462,416A

TIME: 10:40:42

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\08112006\I462416A.raw